

administering the gene delivery system of claim 1 to said immune cells, wherein said gene delivery system mediates gene transduction and causes maturation of said immune cells.

Please amend claim 12 as follows:

12. (amended)

The method of claim 11, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.

Please amend claim 14 as follows:

14. (thrice amended)

A method for genetically manipulating CD40⁺ immune cells, comprising the step of:

administering the gene delivery system of claim 6 to said immune cells, wherein said gene delivery system mediates gene transduction and causes maturation of said immune cells.

Please amend claim 15 as follows:

15. (amended)

The method of claim 14, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.

Please amend claim 17 as follows:

17. (thrice amended)

A method for enhancing the vaccination potential of dendritic cells, comprising the step of:

administering the gene delivery system of claim 1 to said dendritic cells, wherein said gene delivery system mediates gene transduction and increases the vaccination potential of said dendritic cells.

Please amend claim 19 as follows:

19. (amended)

The method of claim 17, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.

Please amend claim 21 as follows:

21. (thrice amended)

A method for enhancing the vaccination potential of dendritic cells, comprising the step of:

administering the gene delivery system of claim 6 to said dendritic cells, wherein said gene delivery system mediates gene transduction and increases the vaccination potential of said dendritic cells.

Please amend claim 23 as follows:

23. (amended)

The method of claim 21, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.

Please amend claim 31 as follows:

31. (twice amended)

A recombinant adenoviral vector, comprising:

a genetically modified adenovirus having a fiber protein comprising CD40 ligand, wherein the fiber shaft of said fiber protein is replaced by

bacteriophage T4 fibrin protein and said CD40 ligand targets said vector to CD40.

Please amend claim 40 as follows:

40. (thrice amended)

A method for enhancing the vaccination potential of dendritic cells, comprising the step of:

administering the gene delivery system of claim 34 to said dendritic cells, wherein said gene delivery system mediates gene transduction and increases the vaccination potential of said dendritic cells.

Please amend claim 41 as follows:

41. (amended)

The method of claim 40, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.

Please amend claim 43 as follows:

43. (thrice amended)

A method for enhancing the vaccination potential of dendritic cells, comprising the step of:

administering the gene delivery system of claim 38 to said dendritic cells, wherein said gene delivery system mediates gene transduction and increases the vaccination potential of said dendritic cells.

Please amend claim 44 as follows:

44. (amended)

The method of claim 43, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an

Please amend claim 53 as follows:

53. (thrice amended)

A method for enhancing the vaccination potential of dendritic cells, comprising the step of:

administering the gene delivery system of claim 47 to said dendritic cells, wherein said gene delivery system mediates gene transduction and increases the vaccination potential of said dendritic cells.

Please amend claim 54 as follows:

54. (amended)

The method of claim 53, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.

Please amend claim 55 as follows:

55. (thrice amended)

A method for enhancing the vaccination potential of dendritic cells, comprising the step of:

administering the gene delivery system of claim 51 to said dendritic cells, wherein said gene delivery system mediates gene transduction and increases the vaccination potential of said dendritic cells.

Please amend claim 56 as follows:

56. (amended)

The method of claim 55, wherein said cells are obtained from individual who has a disease selected from the group consisting of cancer, an infectious disease, allotransplant rejection, xenotransplant rejection and an autoimmune disease.